



InGaAs PIN Photodiode

AC Photonics' PTD Series InGaAs PIN Photodiode are sensitive at 1310nm and 1550nm bands. The planar design and dielectric passivation bring superior noise and photoelectronic performance. Our state-of-the-art planar fabrication techniques lead to high quality and reliability.



Features

- Wide Analog Bandwidth
- Wide Spectral Response(1000~1650nm)
- High Quality and Reliability
- Low Cost

Applications

- DWDM Power Monitoring
- Gain and Power Monitoring in EDFA
- OADM
- OXC
- High Speed Test Systems
- Measurement Instrumentation

Performance Specifications

Parameter	Symbol	Test conditions	Min.	Typ.	Max.
Operating Wavelength(nm)	λ		1000 ~ 1650		
Active Area(um)	Φ			75*	
Dark Current(nA)	I_D	$V_R=5V, E_e=0$		0.5	0.8
Responsivity(A/W)	R	$V_R=5V, \lambda=1310nm$	0.8	0.85	
Breakdown Voltage(V)	V_B	$E_e=0, I=10uA$	50	60	
Capacitance(pF)	C	$V_R=5V, E_e=0, f=1MHz$		0.9	1
Reverse Voltage(V)	V_R				35
Positive Current(mA)	I_P				10
Reverse Current(mA)	I_R				5
Operating Temperature($^{\circ}C$)	T_{OP}		- 20		65
Storage Temperature($^{\circ}C$)	T_{ST}		- 40		85

Specifications may change without notice.

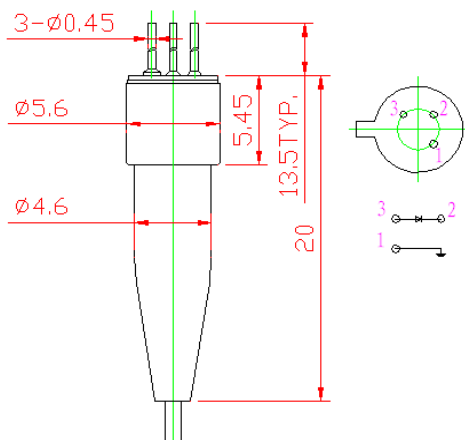
*Other active areas alsoavailable

**For $\Phi 75um$ active area

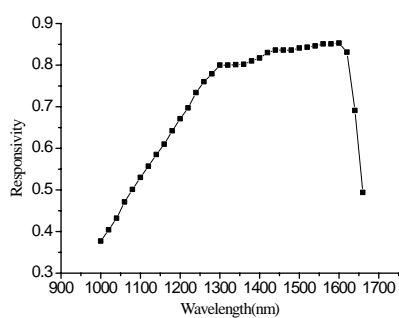
Ordering Information

PTD	Active Area	Package Size	Package Style	Pigtail Style	Fiber Length	Connector
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	0075=75um	A=TO-46	1=With Mount Flange 2=Without Mount Flange C=Customer Specified	1=Bare Fiber (SMF-28) 2=900um Jacket 0=Free Space	1=1m 2=2m	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC

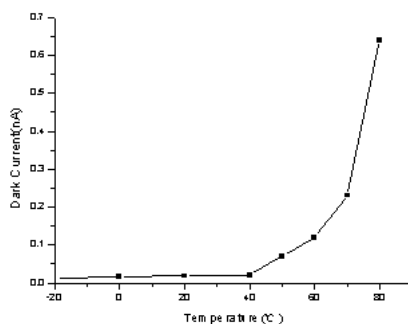
Dimensions (mm)



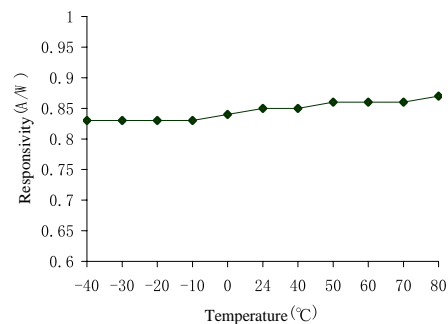
Chart



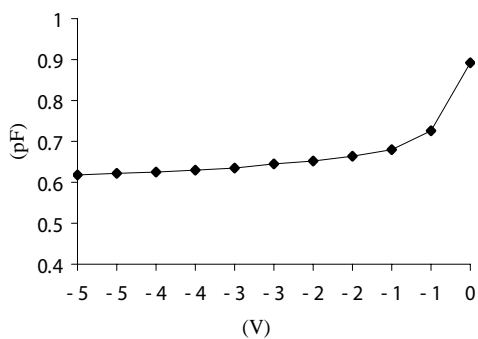
Spectrum Curve



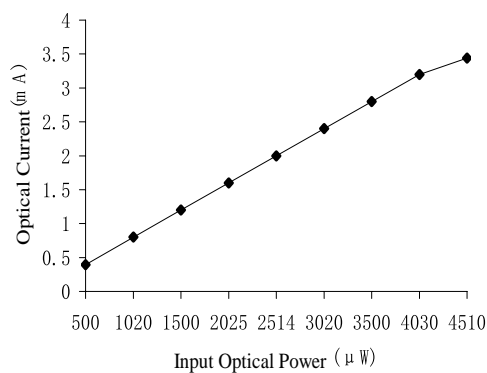
Dark Current-Temperature Curve



Responsivity-Temperature Curve



Capacitance-Voltage Curve



Current-Optical Power Curve

